

200200037

THE UNITED STATES OF ANTERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrob Seed Company TIC

DECEMS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED. OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) TO ACERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANTS) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THIS REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS EXOM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN CING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TON ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'SY32157'

In Costinuous Microsof, I have hereunto set my hand and caused the seal of the Mant Baristo Institute of the City of Washington, D.C. this twenty fourth day of June,

Airat

20mJhe

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretary of Agrica

		FORM APPROVED - OMB NO. 0581-005:
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE	Application is required in order to determin	dance with the Privacy Act of 1974 (5 U.S.C. 552a) te if a plant variety protection certificate is to be issued (7 tital until certificate is issued (7 U.S.C. 2426).
(Instructions and information collection burden statement on reverse) 1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) Asgrow Seed Company LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER EX944A	3. VARIETY NAME SY32157
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	FARO NIMERO 0 0 2 0 0 0 3
	515-232-7170 6. FAX (include area code)	PVPO NUMBER F DATE
634 E. LincolnWay Ames, IA 50010	515-232-6905	12/05/2001
Genus and species name Glycine max (L.) Merr.	8. FAMILY NAME (Botanical) Leguminosae	Filing and examination fee \$ 2,705.00
9. CROP KIND NAME (Common Name) Soybean		DATE 12/05/2001
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, ame) Corporation	, partnership, association, etc.) (common	CERTIFICATION FEE
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware	5/2/03	
3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPL Donald Steffen	LICATION AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code) 515-956-3002
634 E Lincoln Way Ames, IA 50010		FAX (include area code) 515-232-6905
CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on revers a. Exhibit A. Origin and Breeding History of the Variety	e)	
e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2,600 viable untreated seeds or, for tuber propagated varieties verification that tis g. Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to P' T. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME	VPO)	
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c. Exhibit C. Objective Description of the Variety d. Exhibit D. Additional Description of the Variety e. Exhibit E. Statement of the Basis of the Applicant's Ownership f. Voucher Sample (2,600 viable untreated seeds or, for tuber propagated varieties verification that tie g. Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to P' 7. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME YES (if "yes," answer items 18 and 19 below) NO (if "no," go to item 20) 8. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO MBER OF GENERATIONS? YES NO D. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, (YES," give names of countries and dates) USA — December 11, 2000 1. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant varientitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.	ONLY, AS A CLASS OF CERTIFIED SEED 19. IF "YES" TO ITEM 18, WHICH CLASEED? FOUNDATION REGISTE OFFERED FOR SALE, OR MARKETED IN 1 and will be replenished upon request in accordaduration of the certificate. lety, and believe(s) that the variety is new, disting.	? (See Section 83(a) of the Plant Variety Protection Act) SSES OF PRODUCTION BEYOND BREEDER SRED

ASGROW SEED COMPANY LLC PVP APPLICATION - **SY32157**

EXHIBIT A

ORIGIN AND BREEDING HISTORY

- 1992 Final cross was made at Kihei, Hawaii.
 - Parentage: CX469c/CX404
- 1992 F1 generation was grown at Kihei, Hawaii and advanced using modified single seed descent.
- 1993 F2 generation was grown at Kihei, Hawaii and advanced using modified single seed descent.
- 1993 F3 bulk populations were grown at Kihei, Hawaii and single plants pulled.
- 1993 F3 derived F4 plants were grown at Kihei, Hawaii in progeny rows and variety SY32157 was selected based on agronomic characteristics.
- 1994 F3:5 breeder seed was grown at Brazil, Indiana for progeny row increase.
- 1995 F6 seed was grown in yield tests at 1 location in the Indiana.
- 1996 F7 seed was grown in yield tests at 5 locations in the midwestern U.S.
- 1997 F8 seed was grown in yield tests at 17 locations thoughout the U.S.

Variety SY32157 is uniform and stable within commercially acceptable limits based on trial observations since 1995. As with any other soybean variety, variants can occur for almost any characteristic during the course of repeated sexual reproduction.

ASGROW SEED COMPANY LLC PVP APPLICATION - **SY32157**

EXHIBIT B

NOVELTY STATEMENT

To our knowledge, the soybean varieties that closely resemble SY32157 are CX469c, and CX404:

1. RR™ gene	SY32157	- Absent
(Tolerance to glyphosate herbicide)	CX469c	- Absent
	CX404	- Absent
2. Hilum color	SY32157	- Black
	CX469c	- Black
	CX404	- Imperfect Black
3. Pod Wall color	SY32157	- Brown
(Tolerance to Phytophthora root rot)	CX469c	- Tan
	CX404	- Tan

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)	Asgrow Seed Compar	ny LLC		FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.	D. No., City, State, and ZIP Code)			200200037
	634 E. LincolnWay Ames, IA 50010			VARIETY NAME SY32157
				TEMPORARY OR EXPERIMENTAL DESIGNATION EX944A
PLEASE READ ALL INSTR	UCTIONS CAREFULLY: Place the a	ppropriate number that describ	oes the varietal character of	this variety in the boxes below.
Place a zero in the first box (e.	g. 099 or 09) when	number is either 99 or less or 9	or less respectively. Data for	or quantitative
plant characters should be bas	ed on a minimum of 100 plants. Com	parative data should be detern	nined from varieties entered	in the same trial. Royal
	ecognized color standard may be used			
Please answer all questions for	your variety; lack of response may de	elay progress of your application	n,	
A. MORPHOLOGY				
Seed Shape:				
3 = Elong	Γ , and T/W ratios < 1.2)	(L/W ratio 4 = Elonga	cal-Flattened > 1.2; L/T ratio < te-Flattened > 1.2;T/W ratio >	
Seed Coat Color:				
$\boxed{1} \qquad 1 = \text{Yellow}$	w 2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)
Seed Coat Luster:				•
1 1 = Dull	2 = Shiny			
Seed Size:				
1 6 . 2 gr	ams/100 seeds			
Hilum Color:				
6 1 = Buff 6 = Black	2 = Yellow 7 = Other (<i>Plea</i>	3 = Brown use Specify)	4 = Gray	5 = Imperfect Black
Cotyledon Color:	•			
1 1 = Yellov	2 = Green			

A. MORPHOLOGY (Continued)

200200037

Seed Protein Peroxidase Activity:

1 = Low2 = High(NOT TESTED & BT \$ 12/7/2001)

Hypocotyl Color:

1 = Green'Evans' or 'Davis'

2 = Green with Bronze **Bands below Cotyledon** 'Woodworth' or 'Tracy'

3 = Light Purple below Cotyledons 'Beeson' or 'Pickett 71' 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

1 = 000 $6 = \mathbf{III}$

2 = 007 = IV

3 = 08 = V

4 = I9 = VI 5 = II10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

15 = XII

Maturity Subgroup:

Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant 3 = Tolerant

Bacterial

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

Brown Spot (Septoria glycines Hemmi)

. р. т	DISEASE REACTION	15 (Conunuea)	U	= Not Teste	:u 1 =	= Suscepti	Die $Z = \text{Resist}$	ant $3=10$	nerant
	Frogeye Leaf Spot	(Cercospora s	ojina H	ara)					
0	race 1		0 ra	ce 2		0	race 3	0	race 4
0	race 5		0 ra	ce 6			Other (Please Spec	ify)	\$4.00 A
0	Target Spot (Cory	nespora cassiic	<i>ola</i> (Ber	k. & Curt.)) Wei)		200	2000	3 7
0	Downey Mildew (F	^P eronospora tri	foliorun	ı var. <i>man</i> e	churica (N	aum.) Syd	. ex Gäum)		
0	Powdery Mildew (A	Microsphaera (diffusa (Cke. & Pk.)	1				
0	Brown Stem Rot (A	Phialophora gr	regata (A	Allington &	Chamberl	ain) W. G	ams.)		
0	Stem Canker (Diap	orthe phaseolo	orum (C	ke. & Ell.)	Sacc. var.	caulivora	Athow & Caldwel	1)	
0	Pod and Stem Bligh	ht (<i>Diaporthe p</i>	phaseolo	rum (Cke.	& Ell.) Sa	cc. var. <i>so</i>	<i>jae</i> (Lehman) Weh	ım.)	
0	Purple Seed Stain ((Cercospora ki	kuchii (Γ. Matsu. &	t Tomoyas	su) Gardei	ner)		
0	Rhizoctonia Root R	lot (<i>Rhizoctoni</i>	ia solani	Kühn)					
Phyto	phthora Root Rot (Ph	ytophthora me	gasperm	a Drechs. f	. sp. glycii	nea (Kuan	& Erwin))		
1	race 1 2	race 8	0	race 15	0	race 22			
1	race 2	race 9	0	race 16	0	race 23			
1	race 3 1	race 10	1	race 17	0	race 24			
1	race 4 1	race 11	2	race 18	1	race 25			
1	race 5 1	race 12	0	race 19	1	race 26			
1	race 6 2	race 13	0	race 20	1	Other (Pla	ease Specify) :		
1	race 7	race 14	1	race 21		Races 2	8, 29, 30, 31, 32		
0	Bud Blight (Tobacco	o Ringspot Vii	rus)						
0	Yellow Mosaic (Bea	n Yellow Mosa	aic Viru	s)					
0	Cowpea Mosaic (Co	wpea Chloroti	ic Virus)					
0	Pod Mottle (Bean Po	od Mottle Viri	ue)						

	ISEASE REACTION	NS (C	ontinued)	0 = Not T	Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Seed Mottle (Soyh	ean N	Aosaic Viru	ıs)				
Nema	tode							
Soybe	an Cyst Nematode (A	Hetero	odera glycin	es Ichinohe)			2002(0037
0	race 1	0	race 4	0	race 9			
0	race 2	0	race 5	0	race 14	4 (former r. 4)		
2	race 3	0	race 6		Other	(Please Specify) _		
0	Lance Nematode (Hople	olaimus coli	umbus Sher)				
0	Southern Root Kn	ot Ne	matode (M	eloidogyne in	cognita (K	Kofoid & White) (Chitwood)	
0	Northern Root Kn	ot Ne	matode (<i>M</i>	eloidogyne ha	<i>pla</i> Chitw	vood)		
0	Peanut Root Knot	Nema	atode (<i>Mela</i>	idogyne aren	<i>aria</i> (Neal	l) Chitwood)		
0	Reniform Nematod	de (Ra	otylenchus 1	eniformus Li	nwood &	Olivera)		
0	Javanese Nematod	e (<i>Me</i>	loidogyne je	avanica (Treu	ıb) Chitw	ood)		
0	Javanese Nematod Other Nematode (A							
0 C. PH	1 1 ·	Please	Specify) _				2 = Resistant	3 = Tolerant
C. PH	Other Nematode (A	Please ESPO	Specify) _			·····	2 = Resistant	3 = Tolerant
	Other Nematode (A	Please ESPO	Specify) _			·····	2 = Resistant	3 = Tolerant
	Other Nematode (A	Please ESPO	Specify) _			·····	2 = Resistant	3 = Tolerant
0	Other Nematode (ATTSIOLOGICAL RI Iron Chlorosis on C	Please ESPO	Specify) _			·····	2 = Resistant	3 = Tolerant
0	Other Nematode (A) IYSIOLOGICAL RI Iron Chlorosis on (C) Phosphorus Boron	Please ESPO	Specify) _			·····	2 = Resistant	3 = Tolerant
0	Other Nematode (A) HYSIOLOGICAL RI Iron Chlorosis on C Phosphorus Boron Aluminum	Please ESPO	Specify) _			·····	2 = Resistant	3 = Tolerant

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant 3 =	Tolerant
0 Mexican Bean Beetle (Epilachna vo	arivestis Mulsant)			
0 Potato Leaf Hopper (Empoasca fal	bae (Harris))		200200	037
Other (Please Specify)				
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
2 Metribuzin				
0 Bentazone				
1 Sulfonylurea				
1 Glyphosate				
1 Glufosinate				;
0 Pendimethalin				
Other (Please Specify)				
F. TRANSGENIC COMPOSITION				
Has the development of the Subject Variety If yes, please complete the following inform: 1. Please state the vector's name:	included the insertio ation requests*. Use	n or removal of general additional pages if n	tic material? YES	X NO
2. Please state the vector components:				
3. Please describe the genetic material succ	cessfully transferred	into the Subject Vari	ety:	
4. Please describe the insertion protocol:		-		
* A literature citation(s) explaining the fo the "Transgenic Composition" portion of	ur information reque of this form.	sts above may be an	acceptable alternative t	o completion of

G. BIOCHEMICAL MARKERS

200200037

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

ASGROW SEED COMPANY LLC PVP APPLICATION - SY32157 PVP#: 200200237

EXHIBIT D

ADDITIONAL DESCRIPTION OF INVENTION

SY32157 is a mid maturity group IV variety and has very high yield potential. It has superior yields to lines of similar maturity and has excellent agronomic characteristics, including lodging resistance. In tests, it has beaten DEKALB CX470c by 112 % overall, winning at 12 of 17 locations. It is primarily adapted to the mid maturity group IV growing areas of of Indiana, Illinois, Kentucky, and Missouri. It has only average appearance.

REPRODUCE LOCALLY. Include form number and edition date on all reprodu	uctions.	FORM APPROVED - OMB No. 0581-005			
U.S. DEPARTMENT OF AGRICULTURE	The following statements are made it				
AGRICULTURAL MARKETING SERVICE	1974 <i>(5 U.S.C. 552a)</i> and the Paper	Reduction Act (PRA) of 1995.			
EXHIBIT E	Application is required in order to det	termine if a plant variety protection			
STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held				
STATEMENT OF THE BASIS OF OWNERSHIP	confidential until the certificate is issu				
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	1. VARIETY NAME			
	OR EXPERIMENTAL NUMBER				
Asgrow Seed Company LLC	EX944A	SY32157			
4. ADDRESS (Street and No. or R.E.D. No. City. State, and ZIP, and Country)	E TELEBUONE				
the state of the s	•	6. FAX (Include area code)			
634 E. LincolnWay	515-232-7170	515-232-6905			
Ames, IA 50010					
	7. PVPO NUMBER				
	200200	037			
8. Does the applicant own all rights to the variety? Mark an "X" in	the appropriate block				
If no, please explain.	the appropriate block.	YES X NO			
ii iio, pioaso explaili.		TES X NO			
9. Is the applicant (individual or company) a U.S. National or a U.S.	hacad company?				
	5. based company?	VE V 110			
If no, give name of country		YES X NO			
10. Is the applicant the original owner?					
If no, please answer one of the following: .		YES X NO			
in the product and the of the following.		IES X NO			
a. If the original rights to variety were owned by individual(s), i	is (are) the original owner(s) a U.S. Nation	nal(s)?			
YES NO If no, give name of cou	ıntry				
h. If the original rights to varioty were award by a seminary//					
b. If the original rights to variety were owned by a company(is	es), is (are) the original owner(s) a U.S. ba	ised company?			
YES NO If no, give name of cou	intry				
n iio, givo hamo or oou					
11. Additional explanation on ownership (If needed, use the revers	e for extra space):				
•					
Plana Nata					
Please Note:					
Plant variety protection can only be afforded to the owners (not lice	ensees) who meet the following criteria:				
the same of the sa	moody with most the following differia.				
1. If the rights to the variety are owned by the original breeder, that	person must be a U.S. national, national	of a UPOV member country, or			
national of a country which affords similar protection to nationals	of the U.S. for the same genus and spec	ies.			
O 16 the winds to the society and the second					
	loyed the original breeder(s), the compan				
2. If the rights to the variety are owned by the company which emplantionals of a LIPOV more have equative as a support of the company which emplants are supported by the company which emplants are support of the company which emplants are supported by the company which emplays a suppo	a a a contract de la	y must be U.S. based, owned by			
nationals of a UPOV member country, or owned by nationals of a	a country which affords similar protection	y must be U.S. based, owned by to nationals of the U.S. for the same			
If the rights to the variety are owned by the company which emplified nationals of a UPOV member country, or owned by nationals of a genus and species.	a country which affords similar protection	y must be U.S. based, owned by to nationals of the U.S. for the same			
nationals of a UPOV member country, or owned by nationals of a genus and species.	a country which affords similar protection	to nationals of the U.S. for the same			
nationals of a UPOV member country, or owned by nationals of a genus and species. 3. If the applicant is an owner who is not the original owner, both the	a country which affords similar protection e original owner and the applicant must m	to nationals of the U.S. for the same			
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